

DERWENT-ACC-NO: 1980-06413C

DERWENT-WEEK: 198004

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TITLE: Humidity sensitive element - comprising a porous  
humidity-sensitive ceramic with porous electrodes of  
larger pore size on it

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PATENT-FAMILY:

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MAIN-IPC			
JP 54156690 A	December 10, 1979	N/A	000 N/A

INT-CL (IPC): G01N027/12, H01C007/00

ABSTRACTED-PUB-NO: JP 54156690A

BASIC-ABSTRACT:

Element is obtd. by providing porous electrodes of larger ave. pore size than that of the ceramic on a porous humidity-sensitive ceramic of  $\leq 2 \mu m$  in ave. pore size and 10-40% in the porosity.

The element can detect humidity is almost the whole region of near 0-100% in relative humidity. The element exhibits little deterioration of the characteristics even under high humidity and high temp use and high stability by oil, etc; the element is suitable as humidity-controlling element of air-conditioner or for control of cooking of foods.

The humidity-sensitive ceramic is e.g. metal single oxide ceramic, spinel type ceramic, perovskite type ceramic etc. Electrode consists mainly to metal such as Ag, Ni, Zn, etc. or metal oxide and semiconductor of nickel oxide, zinc oxide, indium oxide or ruthenium oxide, which is  $\leq 10 \mu m$  in ave. pore size and 0.1-50  $\mu m$  in the thickness.

TITLE-TERMS: HUMIDITY SENSITIVE ELEMENT COMPRISE POROUS  
HUMIDITY SENSITIVE  
CERAMIC POROUS ELECTRODE LARGER PORE SIZE

DERWENT-CLASS: L03 S03 V01

CPI-CODES: L02-G07C; L03-B01A;